

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

| Application Serial Number: | 10/002,309A |
|----------------------------|-------------|
| Source: | 0,198 |
| Date Processed by STIC: | 2 26 102 |

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FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: <u>patin21help@uspto.gov</u> or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: <u>patin3help@uspto.gov</u> or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER</u> <u>VERSION 3.1 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (http://www.uspto.gov/ebc/efs/downloads/documents.htm, EFS Submission User Manual ePAVE)
- 2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
- 3. Hand Carry directly to:
 - U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
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Revised 01/29/2002

| ERROR DETECTED | SUGGESTED CORRECTION SERIAL NUMBER: 10/002, 309 A |
|-------------------------------------|--|
| ATTN: NEW RULES CASE | S: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE |
| 1Wrapped Nucleics Wrapped Aminos | The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping." |
| 2Invalid Line Length | The rules require that a line not exceed 72 characters in length. This includes white spaces. |
| 3Misaligned Amino Numbering | The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead. |
| 4Non-ASCII | The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text. |
| 5Variable Length | Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing. |
| 6PatentIn 2.0 "bug" | A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences. |
| 7Skipped Sequences (OLD RULES) | Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences. |
| 8Skipped Sequences (NEW RULES) | Sequence(s) missing. If Intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000 |
| 9Use of n's or Xaa's (NEW RULES) | Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents. |
| 10Invalid <213> Response | Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence |
| 11Use of <220> | Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules) |
| Patentin 2.0 "bug" | Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk. |
| 13Misuse of n | n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide. |

AMC/MH - Biotechnology Systems Branch - 08/21/2001



OIPE

Does Not Comply Corrected Diskette Needed

RAW SEQUENCE LISTING

DATE: 02/26/2002

PATENT APPLICATION: US/10/002,309A

Input Set : A:\B0122173.txt

TIME: 14:53:40

Error on P. 6

Output Set: N:\CRF3\02262002\J002309A.raw 3 <110> APPLICANT: Welch, Rodney A. Lathem, Wyndham W. 6 <120> TITLE OF INVENTION: E. COLI O157:H7 C1 ESTERASE INHIBITOR-BINDING PROTEIN AND METHODS OF USE 8 <130> FILE REFERENCE: 096429-9117 C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/002,309A 11 <141> CURRENT FILING DATE: 2001-10-26 13 <150> PRIOR APPLICATION NUMBER: 60/243,675 14 <151> PRIOR FILING DATE: 2000-10-26 16 <160> NUMBER OF SEQ ID NOS: 17 18 <170> SOFTWARE: PatentIn version 3.1 20 <210> SEQ ID NO: 1 21 <211> LENGTH: 2798 22 <212> TYPE: DNA 23 <213> ORGANISM: Unknown Organism 25 <220> FEATURE: 26 <221> NAME/KEY: CDS 27 <222> LOCATION: (138)..(2798) 28 <223> OTHER INFORMATION: Description of Unknown Organism: E. coli O157:H7 plasmid p0157 31 <400> SEQUENCE: 1 32 tttacgaaac aggtgtaaat atgttataaa aataaccaac gactagtgaa taagtcgctc 60 34 ctgaaaaaat aaaatataga aatactgtta tatccggctg catgaacact aaaatgaatg 120 36 agagatggag aacaccg atg aaa tta aag tat ctg tca tgt acg atc ctt 170 Met Lys Leu Lys Tyr Leu Ser Cys Thr Ile Leu 37 38 218 40 gcc cct ctg gcg att ggg gta ttt tct gca aca gct gct gat aat aat 41 Ala Pro Leu Ala Ile Gly Val Phe Ser Ala Thr Ala Ala Asp Asn Asn 20 15 266 44 tca gcc att tat ttc aat acc tcc cag cct ata aat gat ctg cag ggt 45 Ser Ala Ile Tyr Phe Asn Thr Ser Gln Pro Ile Asn Asp Leu Gln Gly 35 48 tcg ttg gcc gca gag gtg aaa ttt gca caa agc cag att tta ccc gcc 314 49 Ser Leu Ala Ala Glu Val Lys Phe Ala Gln Ser Gln Ile Leu Pro Ala 50 52 cat cct aaa gaa ggg gat agt caa cca cat ctg acc agc ctg cgg aaa 362

53 His Pro Lys Glu Gly Asp Ser Gln Pro His Leu Thr Ser Leu Arg Lys

56 agt ctg ctg ctt gtc cgt ccg gtg aaa gct gat gat aaa aca cct gtt 57 Ser Leu Leu Leu Val Arg Pro Val Lys Ala Asp Asp Lys Thr Pro Val

60 cag gtg gaa gcc cgc gat gat aat aat aaa att ctc ggt acg tta acc 61 Gln Val Glu Ala Arg Asp Asp Asn Asn Lys Ile Leu Gly Thr Leu Thr

100

70

65

80

95

410

458

62

64 ctt tat cct cct tca tca cta ccg gat aca atc tac cat ctg gat ggt

506

RAW SEQUENCE LISTING DATE: 02/26/2002 PATENT APPLICATION: US/10/002,309A TIME: 14:53:40

Input Set : A:\B0122173.txt

Output Set: N:\CRF3\02262002\J002309A.raw

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|---|---|---|--|--|---|---|---|--|---|---|--|---|--|--|--|---|-------------------------------------|
| 68 | gtt | ccg | gaa | ggt | ggt | atc | gat | ttc | aca | cct | cat | aat | gga | acq | aaa | aaq | 554 |
| 69 | Val | Pro | Glu | Gly | Gly | Ile | Asp | Phe | Thr | Pro | His | Asn | Gly | Thr | Lvs | Lvs | |
| 70 | | 125 | | | | | 130 | | | | | 135 | - | | -1- | -1- | |
| 72 | atc | att | aat | acg | gtg | gct | gaa | gta | aac | aaa | ctc | agt | gat | acc | agc | aaa | 602 |
| 73 | Ile | Ile | Asn | Thr | Val | Āla | Ğlu | Val | Asn | Lvs | Leu | Ser | Asp | Ala | Ser | Glv | 002 |
| 74 | 140 | | | | | 145 | | | • | 4 | 150 | | | | | 155 | |
| 76 | agt | tct | att | cat | agc | cat | cta | aca | aat | aat | gca | cta | ata | σασ | atc | cat | 650 |
| 77 | Ser | Ser | Ile | His | Ser | His | Leu | Thr | Asn | Asn | Ala | Len | Val | Glu | Tla | Uic | 030 |
| 78 | | | | | 160 | | | _ | | 165 | | | | O_Lu | 170 | 1115 | |
| 80 | act | gca | aat | ggt | cat | taa | σta | aσa | gac | | tat | cta | cca | car | uua T70 | CCC | 698 |
| 81 | Thr | Āla | Asn | Ğĺv | Ara | Trp | Val | Ara | Asp | Tle | Tvr | Len | Pro | Gln | Glv | Dro | 030 |
| 82 | | | | 175 | | | | 5 | 180 | | -1- | LCu | 110 | 185 | GIY | FIU | |
| 84 | gac | ctt | qaa | aat | aad | at.a | at.t. | cac | | att | tca | tot | αca | 102 | +=+ | 201 | 746 |
| 85 | Asp | Leu | Ğlu | Glv | Lvs | Met | Val | Ara | Phe | Val | Ser | Ser | λla | Clv | Tur | Cor | 740 |
| 86 | - | | 190 | 1 | -1- | | , | 195 | 1 110 | · uı | OCI | DCI | 200 | GLY | тут | ser | |
| 88 | tca | acq | | t.t.t. | tat. | aat | αat | | aaa | atc | aca | cto | ±00 | ata | aat | 224 | 704 |
| 89 | Ser | Thr | Val | Phe | Tvr | Glv | Agn | Δra | T.vc | Val | Thr | Ton | cos | y Ly | 21 | aac aac | 794 |
| 90 | | 205 | | | -1- | 017 | 210 | **** 9 | цуз | Val | 1111 | 215 | SeT | val | СТА | ASII | |
| | act | | cta | ttc | aaa | tat | | aat | aat | 020 | +~~ | | ~~~ | + | | | 0.40 |
| 93 | Thr | Len | Len | Dhe | T.vc | Тух | y La Val | Aan Aan | 99C | Cln | Lgg | Dha | age a | CCC | ggt | gaa | 842 |
| 94 | 220 | LCu | | 1110 | | 225 | Val | N211 | СТУ | GIII | | Pne | Arg | ser | GIY | | |
| | ctg | σασ | aat | aat | | | a a t | + > + | a a t | ~~~ | 230 | | . | | | 235 | |
| 97 | Leu | Glu | Δen | Acn | λra | Tlo | mhr. | marx. | 31a | Cay | Ual | all Tla | Lgg | agt | gct | gaa | 890 |
| 98 | Deu | OLU | ASH | | 240 | TTE | 1111 | тут | Ата | 245 | HIS | тте | Trp | ser | | GIu | |
| |) cta | | | | | | | | | | | | | | 250 | | |
| 100 | | cct | aca | 020 | taa | 2+0 | $\alpha + \alpha$ | 00+ | | | | | | | | | |
| 101 | T.e.ii | cct | gcg | cac | tgg | atc | gtg | cct | ggt | tta | aac | ttg | gtg | att | aaa | cag | 938 |
| 101 | . Leu | Pro | gcg Ala | His | ${\tt Trp}$ | atc Ile | gtg Val | cct Pro | Gly | Leu | aac Asn | ttg Leu | gtg Val | Ile | Lys | cag Gln | 938 |
| 101 102 | . Leu ! | Pro | Ala | His 255 | Trp | Ile | Val | Pro | Gly 260 | Leu | Asn | Leu | Val | 11e 265 | Lys | Gln | |
| 101 102 104 | Leu ggc | Pro | Ala ctg | His 255 agc | Trp ggt | Ile cgc | Val cta | Pro | Gly 260 gat | Leu | Asn aaq | Leu att | Val | Ile 265 gca | Lys | Gln aat | 938 986 |
| 101 102 104 105 | Leu ggc Gly | Pro | Ala ctg Leu | His 255 agc Ser | Trp ggt | Ile cgc | Val cta | Pro aat Asn | Gly 260 gat Asp | Leu | Asn aaq | Leu att | Val gga Gly | Ile 265 gca Ala | Lys | Gln | |
| 101 102 104 105 106 | Leu ggc Gly | aat Asn | Ala ctg Leu 270 | His 255 agc Ser | Trp ggt Gly | Ile cgc Arg | Val cta Leu | Pro aat Asn 275 | Gly 260 gat Asp | Leu atc Ile | Asn aag Lys | Leu att Ile | Val gga Gly 280 | Ile 265 gca Ala | Lys ccg Pro | Gln ggt Gly | 986 |
| 101 102 104 105 106 108 | Leu ggc Gly gag | aat Asn | Ala ctg Leu 270 | His 255 agc Ser | Trp ggt Gly cat | Ile cgc Arg | Val cta Leu att | aat Asn 275 | Gly 260 gat Asp | atc Ile | Asn aag Lys atq | Leu att Ile | Val gga Gly 280 | Ile 265 gca Ala | CCC CCC | Gln ggt Gly | |
| 101 102 104 105 106 108 | Leu ggc Gly gag Glu | aat Asn ctg Leu | ctg Leu 270 ttg Leu | His 255 agc Ser | Trp ggt Gly cat | Ile cgc Arg | Val cta Leu att Ile | aat Asn 275 | Gly 260 gat Asp | atc Ile | Asn aag Lys atq | att Ile ttg Leu | yal gga Gly 280 acc | Ile 265 gca Ala | CCC CCC | Gln ggt Gly | 986 |
| 101 102 104 105 106 108 109 | Leu ggc Gly gag Glu | aat Asn ctg Leu 285 | ctg Leu 270 ttg | His 255 agc Ser ttg Leu | ggt Gly cat His | cgc Arg aca Thr | val cta Leu att Ile 290 | aat Asn 275 gat Asp | Gly 260 gat Asp atc | atc Ile ggg Gly | Asn aag Lys atg Met | att Ile ttg Leu 295 | yal gga Gly 280 acc | Ile 265 gca Ala act | ccg Pro ccc Pro | ggt Gly cgg Arg | 986 1034 |
| 101 102 104 105 106 108 109 110 | Leu ggc Gly gag Glu gat | aat Asn ctg Leu 285 | Ala ctg Leu 270 ttg Leu | His 255 agc Ser ttg Leu | ggt Gly cat His | cgc Arg aca Thr | cta Leu att Ile 290 aaa | Asn 275 gat Asp | Gly 260 gat Asp atc Ile | atc Ile ggg Gly | Asn aag Lys atg Met | att Ile ttg Leu 295 cat | yal gga Gly 280 acc Thr | Ile 265 gca Ala act Thr | CCC Pro | ggt Gly cgg Arg | 986 |
| 101 102 104 105 106 108 109 110 112 | Leu ggc Gly gag Glu gat Asp | aat Asn ctg Leu 285 | Ala ctg Leu 270 ttg Leu | His 255 agc Ser ttg Leu | ggt Gly cat His | cgc Arg aca Thr gcc Ala | cta Leu att Ile 290 aaa | Asn 275 gat Asp | Gly 260 gat Asp atc Ile | atc Ile ggg Gly | Asn aag Lys atg Met gca Ala | att Ile ttg Leu 295 cat | yal gga Gly 280 acc Thr | Ile 265 gca Ala act Thr | CCC Pro | ggt Gly cgg Arg ttc Phe | 986 1034 |
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| 101 102 104 105 106 108 109 110 112 113 114 | ggc Gly Gag Glu gat Asp 300 | Asn ctg Leu 285 cgc Arg | ctg Leu 270 ttg Leu ttt Phe | His 255 agc Ser ttg Leu gat Asp | ggt Gly cat His ttt Phe | cgc Arg aca Thr gcc Ala 305 agt | cta Leu att Ile 290 aaa Lys | Pro aat Asn 275 gat Asp gac Asp | Gly 260 gat Asp atc Ile aaa Lys | atc Ile ggg Gly gaa Glu | Asn aag Lys atg Met gca Ala 310 aat | att Ile ttg Leu 295 cat His | yal gga Gly 280 acc Thr agg Arg | Ile 265 gca Ala act Thr gaa Glu | ccg Pro ccc Pro tat Tyr | ggt Gly cgg Arg ttc Phe 315 cta | 986 1034 |
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| 101 102 104 105 106 108 119 112 113 114 116 117 | ggc Gly Ggag Glu gat Asp 300 cag | aat Asn ctg Leu 285 cgc Arg | ctg Leu 270 ttg Leu ttt Phe att | His 255 agc Ser ttg Leu gat Asp cct Pro | ggt Gly cat His ttt Phe gta Val 320 | cgc Arg aca Thr gcc Ala 305 agt Ser | cta Leu att Ile 290 aaa Lys cgt Arg | Asn 275 gat Asp gac Asp atg | Gly 260 gat Asp atc Ile aaa Lys att | atc Ile ggg Gly gaa Glu gtt Val 325 | Asn aag Lys atg Met gca Ala 310 aat Asn | ttg Leu 295 cat His aat | yal gga Gly 280 acc Thr agg Arg | Ile 265 gca Ala act Thr gaa Glu gcg Ala | ccg Pro ccc Pro tat Tyr cct Pro | ggt Gly cgg Arg ttc Phe 315 cta Leu | 986 1034 1082 |
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| 101 102 104 105 106 108 109 110 112 113 114 116 117 118 120 121 122 124 | ggc Gly Ggag Glu gat Asp 300 cag Gln cac | aat Asn ctg Leu 285 cgc Arg acc Thr cta Leu cca | ttt Leu 270 ttg Leu ttt Phe att Ile aag Lys | His 255 agc Ser ttg Leu gat Asp cct Pro gaa Glu 335 aat | ggt Gly cat His ttt Phe gta Val 320 gtt Val | cgc Arg aca Thr gcc Ala 305 agt Ser atg Met | cta Leu att Ile 290 aaa Lys cgt Arg tta Leu | Asn 275 gat Asp gac Asp atg Met cca Pro | Gly 260 gat Asp atc Ile aaa Lys att Ile Thr 340 agt | atc Ile ggg Gly gaa Glu gtt Val 325 gga Gly | Asn aag Lys atg Met gca Ala 310 aat Asn gag Glu | Leu att Ile ttg Leu 295 cat His aat Asn tta Leu atg | Val gga Gly 280 acc Thr agg Arg tat Tyr ttg Leu | Ile 265 gca Ala act Thr gaa Glu gcg Ala aca Thr 345 caa | Lys ccg Pro ccc Pro tat Tyr cct Pro 330 gat Asp | ggt Gly cgg Arg ttc Phe 315 cta Leu atg Met | 986 1034 1082 1130 |
| 101 102 104 105 106 108 110 112 113 114 116 117 118 120 121 122 124 125 | ggc Gly gag Glu gat Asp Gln cac His | aat Asn ctg Leu 285 cgc Arg acc Thr cta Leu cca | ttt Leu ttt Phe att Ile aag Lys | His 255 agc Ser ttg Leu gat Asp cct Pro gaa Glu 335 aat | ggt Gly cat His ttt Phe gta Val 320 gtt Val | cgc Arg aca Thr gcc Ala 305 agt Ser atg Met | cta Leu att Ile 290 aaa Lys cgt Arg tta Leu | aat Asn 275 gat Asp gac Asp Met Cca Pro | Gly 260 gat Asp atc Ile aaa Lys att Ile Thr 340 agt | atc Ile ggg Gly gaa Glu gtt Val 325 gga Gly | Asn aag Lys atg Met gca Ala 310 aat Asn gag Glu | Leu att Ile ttg Leu 295 cat His aat Asn tta Leu atg | Val gga Gly 280 acc Thr agg Arg tat Tyr ttg Leu cgt Arg | Ile 265 gca Ala act Thr gaa Glu gcg Ala aca Thr 345 caa | Lys ccg Pro ccc Pro tat Tyr cct Pro 330 gat Asp | ggt Gly cgg Arg ttc Phe 315 cta Leu atg Met | 986 1034 1082 1130 1178 |
| 101 102 104 105 106 108 110 112 113 114 116 117 118 120 121 122 124 125 126 | ggc Gly gag Glu gat Asp Gln cac His | aat Asn ctg Leu 285 cgc Arg acc Thr cta Leu cca Pro | ttt Leu ttt Phe att Ile aag Lys gga Gly 350 | His 255 agc Ser ttg Leu gat Asp cct Pro gaa Glu 335 aat Asn | ggt Gly cat His ttt Phe gta Val 320 gtt Val ggt Gly | cgc Arg aca Thr gcc Ala 305 agt Ser atg Met | cta Leu att Ile 290 aaa Lys cgt Arg tta Leu tgg | aat Asn 275 gat Asp gac Asp atg Met cca Pro cat His 355 | Gly 260 gat Asp atc Ile aaa Lys att Ile acc Thr 340 agt Ser | atc Ile ggg Gly gaa Glu gtt Val 325 gga Gly | Asn aag Lys atg Met gca Ala 310 aat Asn gag Glu aca Thr | ttg Leu 295 cat His aat Asn tta Leu atg Met | Val gga Gly 280 acc Thr agg Arg tat Tyr ttg Leu cgt Arg 360 | Ile 265 gca Ala act Thr gaa Glu gcg Ala aca Thr 345 caa Gln | CCC Pro tat Tyr CCt Pro 330 gat Asp aga Arg | ggt Gly cgg Arg ttc Phe 315 cta Leu atg Met | 986 1034 1082 1130 1178 |
| 101 102 104 105 106 108 110 112 113 114 116 117 118 120 121 122 124 125 126 | ggc Gly gag Glu gat Asp Gln cac His | Asn ctg Leu 285 cgc Arg acc Thr cta Leu cca Pro | ttt Leu ttt Phe att Ile aag Lys gga Gly 350 gaa | His 255 agc Ser ttg Leu gat Asp cct Pro gaa Glu 335 aat Asn ttg | ggt Gly cat His ttt Phe gta Val 320 gtt Val ggt Gly | cgc Arg aca Thr gcc Ala 305 agt Ser atg Met ggg Gly tcg | cta Leu att Ile 290 aaa Lys cgt Arg tta Leu tgg Trp | aat Asn 275 gat Asp gac Asp Met cca Pro cat His 355 ggc | Gly 260 gat Asp atc Ile aaa Lys att Ile acc Thr 340 agt Ser att | atc Ile ggg Gly gaa Glu gtt Val 325 gga Gly ggt Gly gat | Asn aag Lys atg Met gca Ala 310 aat Asn gag Glu aca Thr | ttg Leu 295 cat His aat Asn tta Leu atg Met | Val gga Gly 280 acc Thr agg Arg tat Tyr ttg Leu cgt Arg 360 aac | Ile 265 gca Ala act Thr gaa Glu gcg Ala aca Thr 345 caa Gln | CCC Pro tat Tyr Cct Pro 330 gat Asp aga Arg | ggt Gly cgg Arg ttc Phe 315 cta Leu atg Met | 986 1034 1082 1130 1178 |

RAW SEQUENCE LISTING DATE: 02/26/2002 PATENT APPLICATION: US/10/002,309A TIME: 14:53:40

Input Set : A:\B0122173.txt

Output Set: N:\CRF3\02262002\J002309A.raw

| 130 | | 365 | | | | | 370 | | | | | 375 | | | | | |
|-----|-----|-----|------|-----|-----|-----|-----|-------|------------|-----|-------|-----|------|----------------|------|-----|------|
| 132 | aat | agt | acc | gca | ggc | tta | ggg | gag | aat | agt | cat | cca | tat | gta | gtt | gcg | 1322 |
| | | | | | | | | | Asn | | | | | | | | |
| 134 | 380 | | | | _ | 385 | _ | | | | 390 | | | | | 395 | |
| 136 | caa | tta | gcg | gca | cat | aat | agc | cgc | ggt | aat | tat | gct | aat | ggc | atc | cag | 1370 |
| | | | | | | | | | Gly | | | | | | | | |
| 138 | | | | | 400 | | | - | | 405 | | | | | 410 | | |
| 140 | gtt | cat | ggt | ggc | tcc | gga | ggt | ggg | gga | att | gtt | act | tta | gat | tcc | aca | 1418 |
| | | | | | | | | | Gly | | | | | | | | |
| 142 | | | _ | 415 | | | | | 420 | | | | | 425 | | | |
| 144 | ttg | ggg | aat | gag | ttc | agt | cat | gaa | gtt | ggt | cat | aat | tat | ggt | ctt | ggt | 1466 |
| | | | | | | | | | Val | | | | | | | | |
| 146 | | | 430 | | | | | 435 | | | | | 440 | | | | |
| 148 | cat | tat | gta | gat | ggt | ttc | aag | ggt | tct | gta | cat | cgt | agt | gca | gaa | aat | 1514 |
| 149 | His | Tyr | Val | Asp | Gly | Phe | Lys | Gly | Ser | Val | His | Arg | Ser | Ala | Glu | Asn | |
| 150 | | 445 | | | | | 450 | | | | | 455 | | | | | |
| | | | | | | | | | ggt | | | | | | | | 1562 |
| 153 | Asn | Asn | Ser | Thr | Trp | Gly | Trp | Asp | Gly | Asp | Lys | Lys | Arg | Phe | Ile | Pro | |
| 154 | 460 | | | | | 465 | | | | | 470 | | | | | 475 | |
| | | | | | | | | | gaa | | | | | | | | 1610 |
| 157 | Asn | Phe | Tyr | Pro | Ser | Gln | Thr | Asn | Glu | Lys | Ser | Cys | Leu | Asn | Asn | Gln | |
| 158 | | | | | 480 | | | | | 485 | | | | | 490 | | |
| | | | | | | | | | aaa | | | | | | | | 1658 |
| 161 | Cys | Gln | Glu | Pro | Phe | Asp | Gly | His | Lys | Phe | Gly | Phe | Asp | Ala | Met | Ala | |
| 162 | | | | 495 | | | | | 500 | | | | | 505 | | | |
| | | | | | | | | | aac | | | | | | | | 1706 |
| 165 | Gly | Gly | Ser | Pro | Phe | Ser | Ala | Ala | Asn | Arg | Phe | Thr | | \mathtt{Tyr} | Thr | Pro | |
| 166 | | | 510 | | | | | 515 | | | | | 520 | | | | |
| | | | | | | | | | ttt | | | | | | | | 1754 |
| | Asn | | Ser | Ala | Ile | Ile | | Arg | Phe | Phe | Glu | | Lys | Ala | Val | Phe | |
| 170 | | 525 | | | | | 530 | | | | | 535 | | | | | |
| | | | | | | | | | agc | | | | | | | | 1802 |
| | _ | Ser | Arg | Ser | Ser | | Gly | Phe | Ser | Lys | | Asn | Ala | Asp | Thr | | |
| | 540 | | | | | 545 | | | | | 550 | | | | | 555 | 1050 |
| | | | | | | | | | att | | | | | | | | 1850 |
| | Glu | Met | GLu | Pro | | GLu | His | Thr | Ile | | Arg | Ala | GIu | GIn | | Thr | |
| 178 | | | | | 560 | | | | | 565 | | | | - 4 | 570 | | 1000 |
| | | | | | | | | | agc | | | | | | | | 1898 |
| | Ala | ser | Val | | GLu | Leu | Ser | GLu | Ser | Lys | мет | Ата | GIU | | мет | Ala | |
| 182 | | | | 575 | | | | | 580 | | | | | 585 | | | 1016 |
| | | | | | | | | | atg | | | | | | | | 1946 |
| | GIU | туг | | vaı | vaı | гуѕ | Val | | Met | ттр | ASII | СТА | 600 | тър | TIII | AIG | |
| 186 | | | 590 | | | | ~~~ | 595 | ~~~ | ~~+ | | 200 | | 24+ | 2+4 | ata | 1994 |
| | | | | | | | | | gca | | | | | | | | 1334 |
| | ASN | | туr | тте | PLO | THE | 610 | ser | Ala | ASP | ASII | 615 | стХ | ser | тте | пец | |
| 190 | 200 | 605 | 222 | as+ | an- | ~~~ | | + ~ + | a a + | 24+ | + = + | | +++ | a+= | 22+ | aat | 2042 |
| | | | | | | | | | aat Asn | | | | | | | | 2042 |
| | 620 | тте | ASII | птЗ | GIU | 625 | GTĀ | тут | HSII | Per | 630 | ьeu | FIIG | TIG | UDII | 635 | |
| エブ4 | 020 | | | | | 023 | | | | | 030 | | | | | 555 | |
| | | | | | | | | | | | | | | | | | |

2/26/02

DATE: 02/26/2002

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/002,309A TIME: 14:53:40

Input Set : A:\B0122173.txt

Output Set: N:\CRF3\02262002\J002309A.raw

| 197 | gac Asp | | | | | | | | | | | | | | | | 2090 |
|------------|-------------------|-------|-------|------|-----|---|---|-----|---|-----|---|-----|---|---|-----|---|------|
| | ggt Gly | | | | aaa | | | | | gtt | | | | | gcg | | 2138 |
| 204 | aag Lys | | | | | | | | | | | | | | | | 2186 |
| | gat Asp | | | | | | | | | | | | | | | | 2234 |
| 213 | gcc Ala 700 | | | | | | | - | _ | - | _ | | | | - | | 2282 |
| | gac Asp | | | | | | | | | | | | | | | | 2330 |
| | ctg Leu | | | | | | | | | | | | | | | | 2378 |
| | aac Asn | | | | _ | - | _ | | | _ | _ | | _ | _ | _ | | 2426 |
| | aac Asn | _ | | _ | - | | | _ | | | | | | _ | | | 2474 |
| 232 233 | acc Thr 780 | | | | | | | | | | | | | | | | 2522 |
| | tgc Cys | | | | | | | | | _ | | _ | _ | _ | - | | 2570 |
| | caa Gln | | | | | - | | | - | | | _ | | _ | _ | - | 2618 |
| | tat Tyr | _ | - | - | | - | | | | | _ | | | _ | | _ | 2666 |
| | aac Asn | | | | | | | ggt | | | | | | | | | 2714 |
| 253 | gct Ala 860 | | | | | | | | | | | | | | | | 2762 |
| 256 | agt Ser | | | | | | | | | | | taa | | | | | 2798 |
| | <210 | 0> S1 | EQ II | ои с | | | | | | | | | | | | | |

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/002,309A

DATE: 02/26/2002 TIME: 14:53:40

Input Set : A:\B0122173.txt

Output Set: N:\CRF3\02262002\J002309A.raw

See error summer shoot, 'tem !! 262 <211> LENGTH: 886 263 <212> TYPE: PRT 264 <213> ORGANISM: Unknown Organism W--> 266 <220> FEATURE: W--> 266 <223> OTHER INFORMATION: 266 <400> SEQUENCE: 2 268 Met Lys Leu Lys Tyr Leu Ser Cys Thr Ile Leu Ala Pro Leu Ala Ile 272 Gly Val Phe Ser Ala Thr Ala Ala Asp Asn Asn Ser Ala Ile Tyr Phe 20 . 25 276 Asn Thr Ser Gln Pro Ile Asn Asp Leu Gln Gly Ser Leu Ala Ala Glu 280 Val Lys Phe Ala Gln Ser Gln Ile Leu Pro Ala His Pro Lys Glu Gly 55 284 Asp Ser Gln Pro His Leu Thr Ser Leu Arg Lys Ser Leu Leu Leu Val 75 288 Arg Pro Val Lys Ala Asp Asp Lys Thr Pro Val Gln Val Glu Ala Arg 85 292 Asp Asp Asn Asn Lys Ile Leu Gly Thr Leu Thr Leu Tyr Pro Pro Ser 105 296 Ser Leu Pro Asp Thr Ile Tyr His Leu Asp Gly Val Pro Glu Gly Gly 297 115 120 300 Ile Asp Phe Thr Pro His Asn Gly Thr Lys Lys Ile Ile Asn Thr Val 135 140 304 Ala Glu Val Asn. Lys Leu Ser Asp Ala Ser Gly Ser Ser Ile His Ser 305 145 150 155 308 His Leu Thr Asn Asn Ala Leu Val Glu Ile His Thr Ala Asn Gly Arg 165 170 312 Trp Val Arg Asp Ile Tyr Leu Pro Gln Gly Pro Asp Leu Glu Gly Lys 180 185 316 Met Val Arg Phe Val Ser Ser Ala Gly Tyr Ser Ser Thr Val Phe Tyr 195 200 320 Gly Asp Arg Lys Val Thr Leu Ser Val Gly Asn Thr Leu Leu Phe Lys 215 220 324 Tyr Val Asn Gly Gln Trp Phe Arg Ser Gly Glu Leu Glu Asn Asn Arg 230 235 328 Ile Thr Tyr Ala Gln His Ile Trp Ser Ala Glu Leu Pro Ala His Trp 245 250 332 Ile Val Pro Gly Leu Asn Leu Val Ile Lys Gln Gly Asn Leu Ser Gly 260 265 336 Arg Leu Asn Asp Ile Lys Ile Gly Ala Pro Gly Glu Leu Leu His 275 280 340 Thr Ile Asp Ile Gly Met Leu Thr Thr Pro Arg Asp Arg Phe Asp Phe 295 344 Ala Lys Asp Lys Glu Ala His Arg Glu Tyr Phe Gln Thr Ile Pro Val 345 305 310 315 348 Ser Arg Met Ile Val Asn Asn Tyr Ala Pro Leu His Leu Lys Glu Val 325 330 352 Met Leu Pro Thr Gly Glu Leu Leu Thr Asp Met Asp Pro Gly Asn Gly.

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/002,309A

DATE: 02/26/2002

TIME: 14:53:41

Input Set : A:\B0122173.txt

Output Set: N:\CRF3\02262002\J002309A.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application Number

L:266 M:258 W: Mandatory Feature missing, <220> FEATURE:

L:266 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION: